3Rs initiatives for GA mice

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Introduction

The number of genetically altered (GA) mice used in scientific procedures within the UK and internationally has risen significantly, welfare and logistical challenges in terms of applying the principles of the 3Rs (Replacement, Reduction & Refinement).

With this in mind, the RSPCA has set up three expert working groups to identify and promote contemporary good practice in relation to GA passports, training in transgenic technology, and the sharing and archiving of GA mice.

This poster will provide an introduction to each of the working groups together with details of some new key resources for the mouse genomics community.

For more information visit <u>www.rspca.org.uk/science</u> <u>group/researchanimals/implementingthe3rs</u> or email GA@rspca.org.uk

Resource Sharing Working Group

Sharing model organisms and the use of archive facilities represents an important refinement with additional possibilities for reduction, that has benefits



not only for animal welfare, but also the quality and advancement of scientific research. To investigate how to promote the sharing and archiving of GA animals the Resource Sharing Working Group (RSWG) was convened with member representing the BBSRC, Cancer Research UK, MRC and NC3Rs.

Resources

• A booklet entitled "Sharing and Archiving of genetically altered mice: opportunities for reduction and refinement" outlines current good practice in the sharing and archiving of GA mice (see below for more information).

GA Passports Working Group

The movement of GA animals between establishments is becoming more widespread. This raises the issue of how to ensure that information can be used to improve welfare and minimise potential pain, suffering and distress, is accessible to those who care for them throughout their lifetime. With this in mind the **GA Passport Working Group (GAPWG)** was convened with three main aims:

- to consolidate progress made in the routine welfare assessment and the development of welfare/ phenotypic databases, with the idea of 'mouse passports'
- to promote the idea of 'passports' for all GA animals, and
- to establish the use of GA passports as routine good practice when transferring animals between establishments where the journey ends with a new set of carers.

Resources

• The working group is shortly to publish a booklet entitled "GA Passports: The key to consistent animal care" (see below).

Transgenic Training Working Group

Good training for staff caring for and using laboratory animals is essential in order for the 3Rs to be fully implemented. The question of how additional training can best be provided in specific scientific fields with particular **specialist in vivo procedures** has been raised but not answered. The **Transgenic Training Working Group (TTWG)** was convened to discuss training issues and how best to disseminate contemporary good practice and implementation of the 3Rs within the transgenic field.

Events

- A 1-day meeting entitled "Transgenics and the 3Rs

 What's it all about?" will be held on the 12th April
 2010 for animal care and technical staff, or anyone wanting a refresher on the basics (see below).
- A 2-day residential course entitled "Managing Mouse Colonies – Genetics, Breeding & Welfare" is being held 20th-21st July 2010 for experienced technicians and scientific staff involved with the management of GA colonies (see below).



Resources

• Posters detailing contemporary good practice in the production, housing and care of GA mice (see below).

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